

CLAIM AMENDMENTS

Claim 1 (currently amended)

A process for the production of at least one peptide of interest from a biological fluid which comprises the steps of:

- a) contacting said biological fluid comprising at least one ~~or more proteins~~ protein which ~~contain~~ contains the amino acid sequence of said peptide of interest with a chromatographic medium to adsorb said protein containing said sequence,
- b) subjecting said adsorbed material to hydrolysis to fragment said protein and produce said peptide which remains substantially adsorbed,
- c) washing the medium to remove unbound material,
- d) desorbing said remained substantially adsorbed peptide from said chromatographic medium, and, optionally,
- e) further purifying said desorbed peptide of interest.

Claim 2 (original)

The process according to claim 1, further comprising, before step b), the step of washing the medium to remove unbound material.

Claim 3 (previously presented)

The process according to claim 1, wherein said chromatographic medium is a cation-exchange.

Claim 4 (previously presented)

The process according to claim 1, wherein said chromatographic medium is an anion-exchange.

Claim 5 (currently amended)

The process according to claim 1, wherein ~~the~~ said chromatographic medium is a medium for hydrophobic interaction chromatography.

Claim 6 (previously presented)

The process according to claim 1, wherein said chromatographic medium is a medium for affinity chromatography.

Claim 7 (previously presented)

The process according to claim 1, wherein said chromatographic medium comprises a chromatographic membrane.

Claim 8 (previously presented)

The process according to claim 1, wherein the hydrolysis is carried out enzymatically.

Claim 9 (original)

The process according to claim 8, wherein one or more enzymes are used selected from the group of pepsin, chymosin, trypsin, plasmin, chymotrypsin, subtilisin, and thermolysin.

Claim 10 (currently amended)

The process according to claim 1, wherein the biological fluid is selected from the group consisting of milk, whey, blood, blood serum, egg white, culture cells, extracts from culture cells, and plant cells.

Claim 11 (currently amended)

A peptide, obtainable by the method of claim 1, having an amino acid sequence selected from the group consisting of the following sequences (1) - (8), ~~or derivatives thereof having a primary amide at the carboxy end thereof, which derivatives do not interfere with any biological properties of the peptide:~~

SEQ ID NO:(1) VYQHQAAMKPWIQPKT

SEQ ID NO:(2) VYQHQAAMKPWIQPKTKVIPY

SEQ ID NO:(3) VYQHQAAMKPWIQPKTKVIPYVRY

SEQ ID NO:(4) VYQHQAAMKPWIQPKTKVIPYVRYL

SEQ ID NO:(5) PEWSKC*YQWQRRMRKLGAPSITC*IRRTSA

PEWSKC*YQWQRRMRKLGAPSITC*IRRTSA (* = linked by a disulfide bridge)

SEQ ID NO:(6) PEWSKCYQWQRRMRKLGAPSITCIRRTSA

SEQ ID NO:(7) TQRKTRNGFRVPLARE

SEQ ID NO:(8) APPKNVRW APRKNVRW

or derivatives thereof having a primary amide at the carboxy end thereof, which derivatives do not interfere with any biological properties of the peptide.

Claims 12-14 (cancelled)